

# PULSE-WIDTH MODULATION CONTROL SYSTEM OF INVERTER

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Inventor: IWASAKI MANABU  
Applicant: FUJI ELECTRIC CO LTD  
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## Abstract of JP62012381

**PURPOSE:** To suppress a harmonic wave by switching a pulse-width modulation control wave from a triangular wave to a sawtooth wave when the using frequency of an inverter becomes higher than the prescribed value.  
**CONSTITUTION:** A microprocessor 1 inputs a frequency signal through a V/F converter 3 from a frequency setter 2, a modulated triangular wave from a triangular wave generator 4, and a signal from a protecting circuit 5, calculates as prescribed the pulse-width modulation by a program in a ROM 14, and produces a gate signal through an output timer 11 to a 3-phase inverter. In this case, a sawtooth wave generator 13 is provided in addition to the generator 4, and a program for controlling to modulate by converting the modulation wave from a triangular wave to a sawtooth wave when the set frequency of the setter 2 becomes higher than the prescribed value is provided in the ROM 14. Thus, the triangular wave is modulated in a low frequency band, and the sawtooth wave is modulated in a high frequency band to suppress harmonic waves.

